

	BIO-PM 4.36 American Optical and Nikon Microscopes and Accessories	
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4.36 American Optical And Nikon Microscopes and Accessories

4.36.1 Scope

For highly magnified inspection of materials in the lab.

4.36.2 Background Information

Instruction manual for Nikon microscope Model S-Ke; instruction manual for American Optical AO StereoStar/ZOOM Stereoscopic Microscope; operating instructions for American Optical Model 11-80 Fiber Optic Illuminator.

4.36.3 Operation

4.36.3.1 Nikon Comparison Scope and Transformers

4.36.3.1.1

Read instructions for full information about set-up of microscope and illuminators (transformers).

4.36.3.1.2

When using oil immersion, clean the oil immersion lens with xylol only, never alcohol. All lenses should be cleaned with a soft cloth wet with xylol, not alcohol.

4.36.3.1.3

When changing illuminator bulbs, be careful not to burn your fingers on a hot bulb.

4.36.3.1.4

Tension of coarse focus knobs should be adjusted with the adjusting rings, not by twisting the knobs.

4.36.3.1.5

Do not apply any grease of an unspecified type to the sliding surfaces of the coarse focusing adjustment or the gliding stage. If necessary, contact the manufacturer.

4.36.3.1.6

Avoid any forcible manipulation of the moving parts. At all times, the instrument should be handled carefully. To transport, pack the body tube, rectangular or circular stage, and lenses in a separate container.

4.36.3.1.7

Protect the instrument from dust and store in a dry place.

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4.36.3.1.8

See instructions for the use of the Comparison Eyepiece Bridge.

4.36.3.2 American Optical Stereo Microscope and AO Illuminator

4.36.3.2.1

Allow the EJY lamp on the illuminator to cool for about 5 minutes before replacing. Unplug the illuminator. Remove the lamp cover by turning the screw fastener at the top center of the illuminator about ¼ turn counterclockwise. Pull the wire extractor lever to the left until the lamp is clear of the socket. Replace the old bulb by sliding a new one into the socket with the pins lined up horizontally. Be sure the lamp is completely seated in the socket and centered on the mounting flange at the front of the lamp. Replace the cover and lock in place.

4.36.3.2.2

For the microscope, see the owner's manual before use and for set up.

4.36.3.2.3

See the owner's manual for eyepiece calibration instructions.

4.36.3.2.4

The power body of this scope is permanently lubricated. The focusing slideway should be cleaned and lightly lubricated periodically.

4.36.3.2.5

Protect microscope from dust.

4.36.3.2.6

Do not attempt to disassemble power body of the microscope.

4.36.3.2.7

Dust lenses with a camel's hairbrush. Optical surfaces may be cleaned with soft lint-free cloth or lens paper. Distilled water, alcohol, or xylene may be used to moisten the cloth or paper.